ABSTRACT OF THE DISCLOSURE

A loading system for a vehicle passenger protection device performs collision determination without using inaccurate signals included among acceleration signals input to a collision determination unit. First and second normal/abnormal judgment units judge whether output signals from a main G sensor and a satellite G sensor are normal signals or abnormal signals. If abnormal, then abnormal signal processing is performed to replace the abnormal signal value with the output value of an immediately preceding normal signal, to thereby produce an abnormal signal processing signal. Segment integration is then performed on the normal signals and the abnormal signal processing signal(s) to determine whether the vehicle has collided.